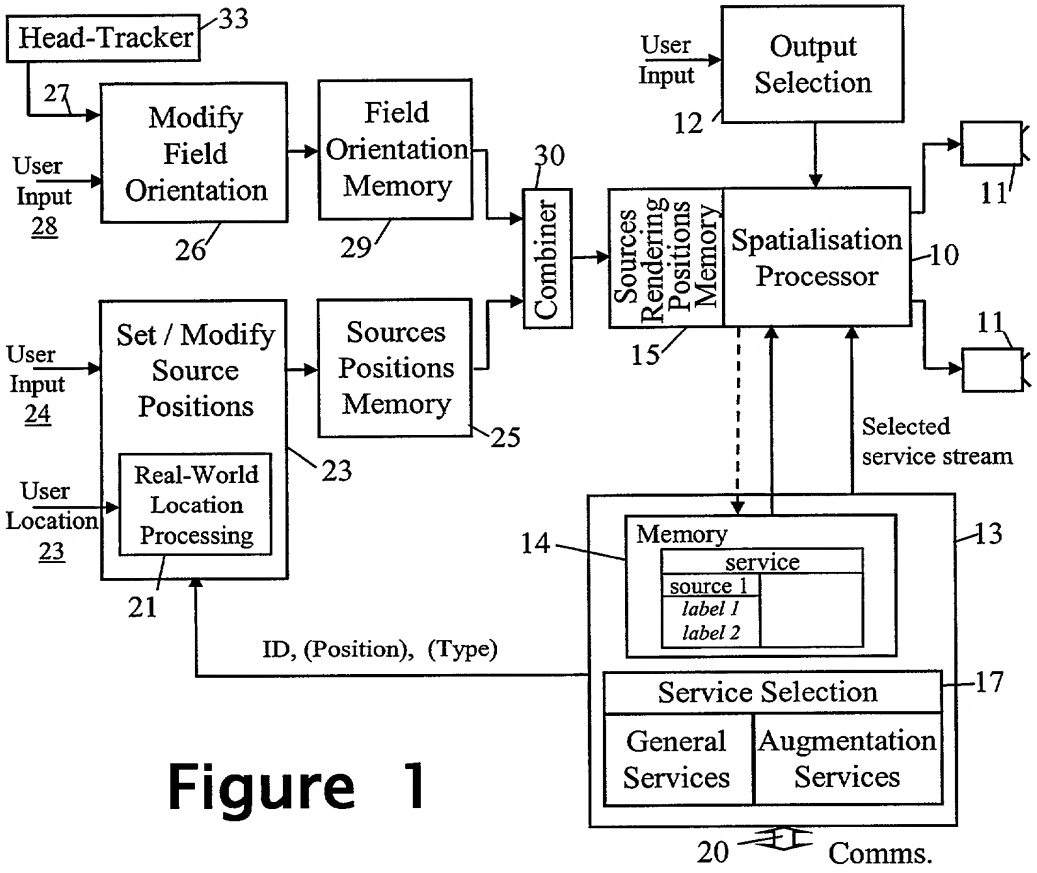


Figure 1

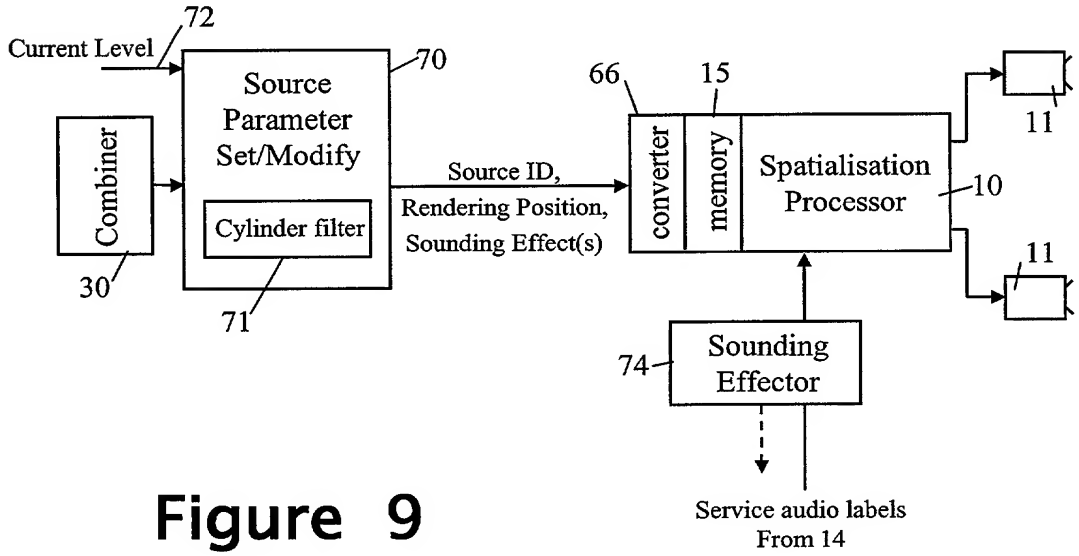


Figure 9

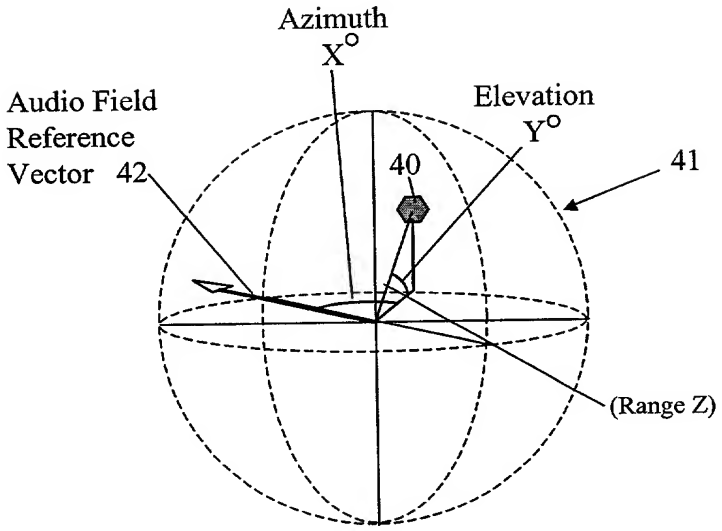


Figure 2

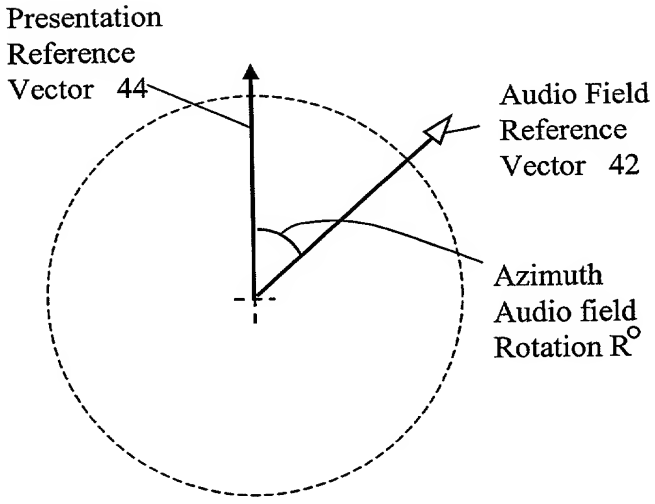


Figure 3

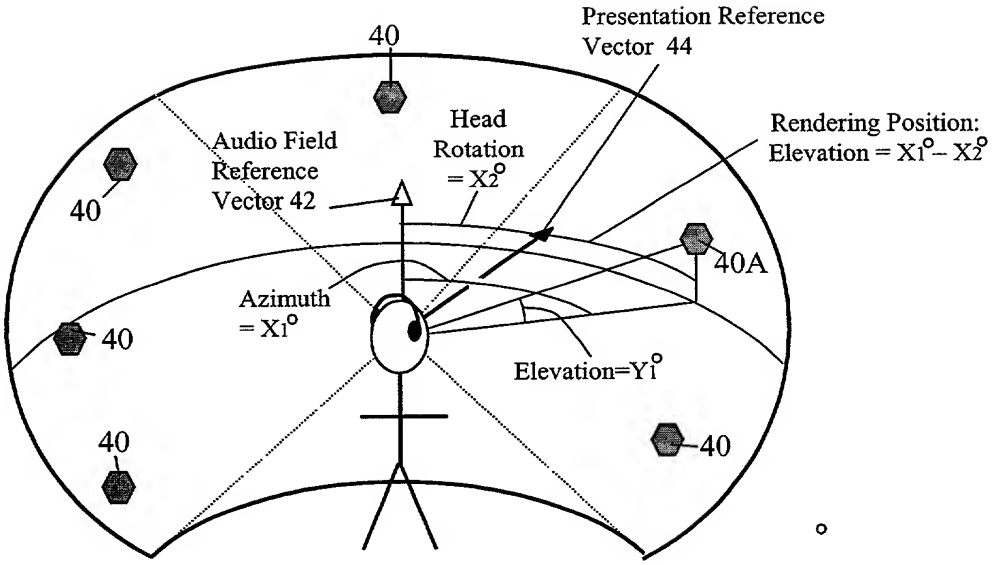


Figure 4

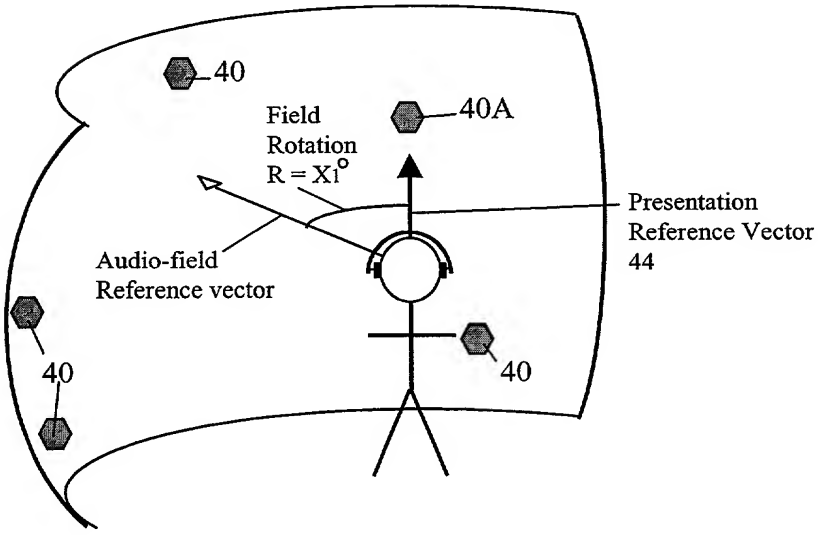


Figure 5

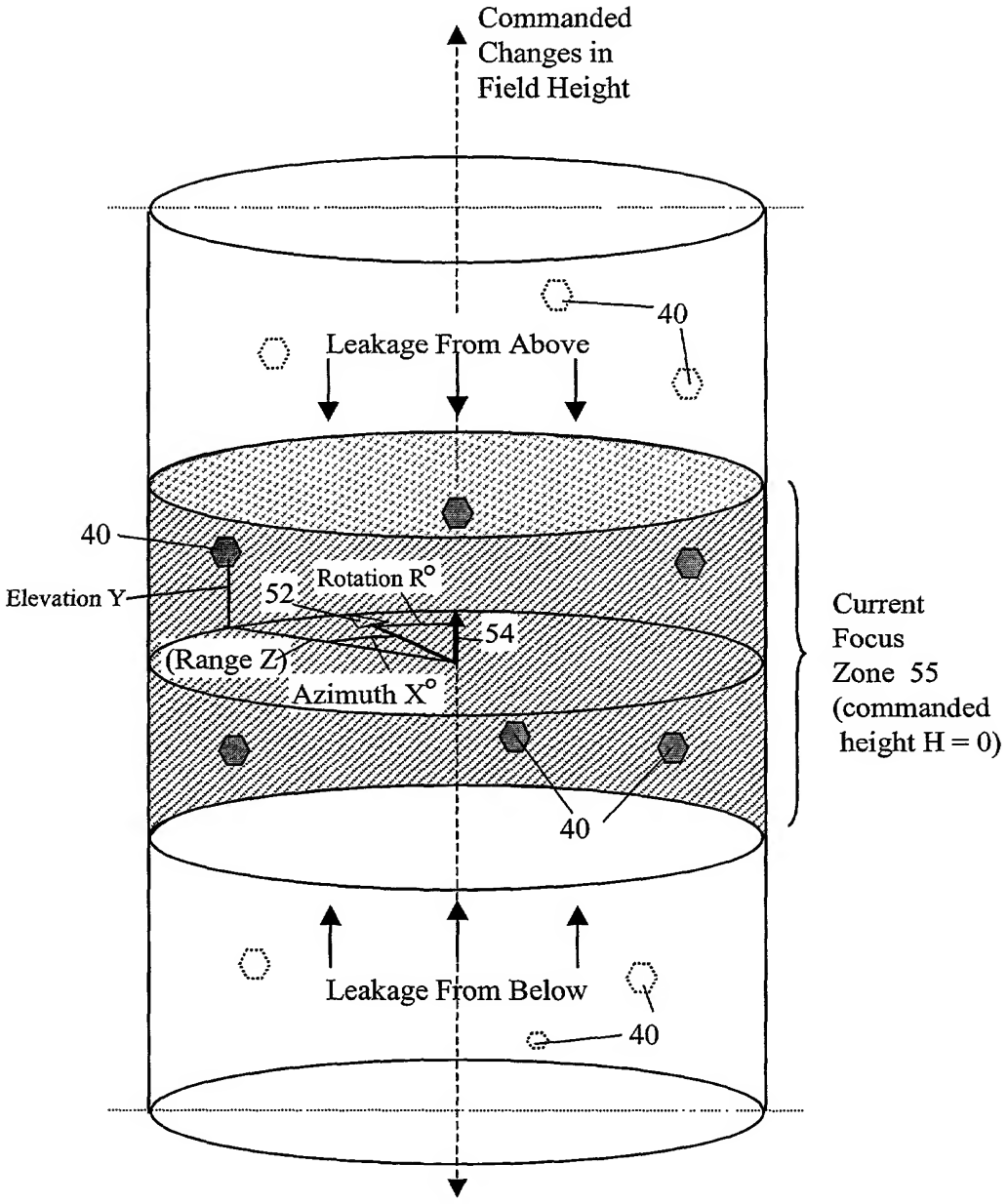

Commanded
Changes in
Field Height
40
Leakage From Above
40
Elevation Y
52
Rotation R°
54
(Range Z)
Azimuth X°
Current
Focus
Zone 55
(commanded
height H = 0)
40
Leakage From Below
40

Figure 6

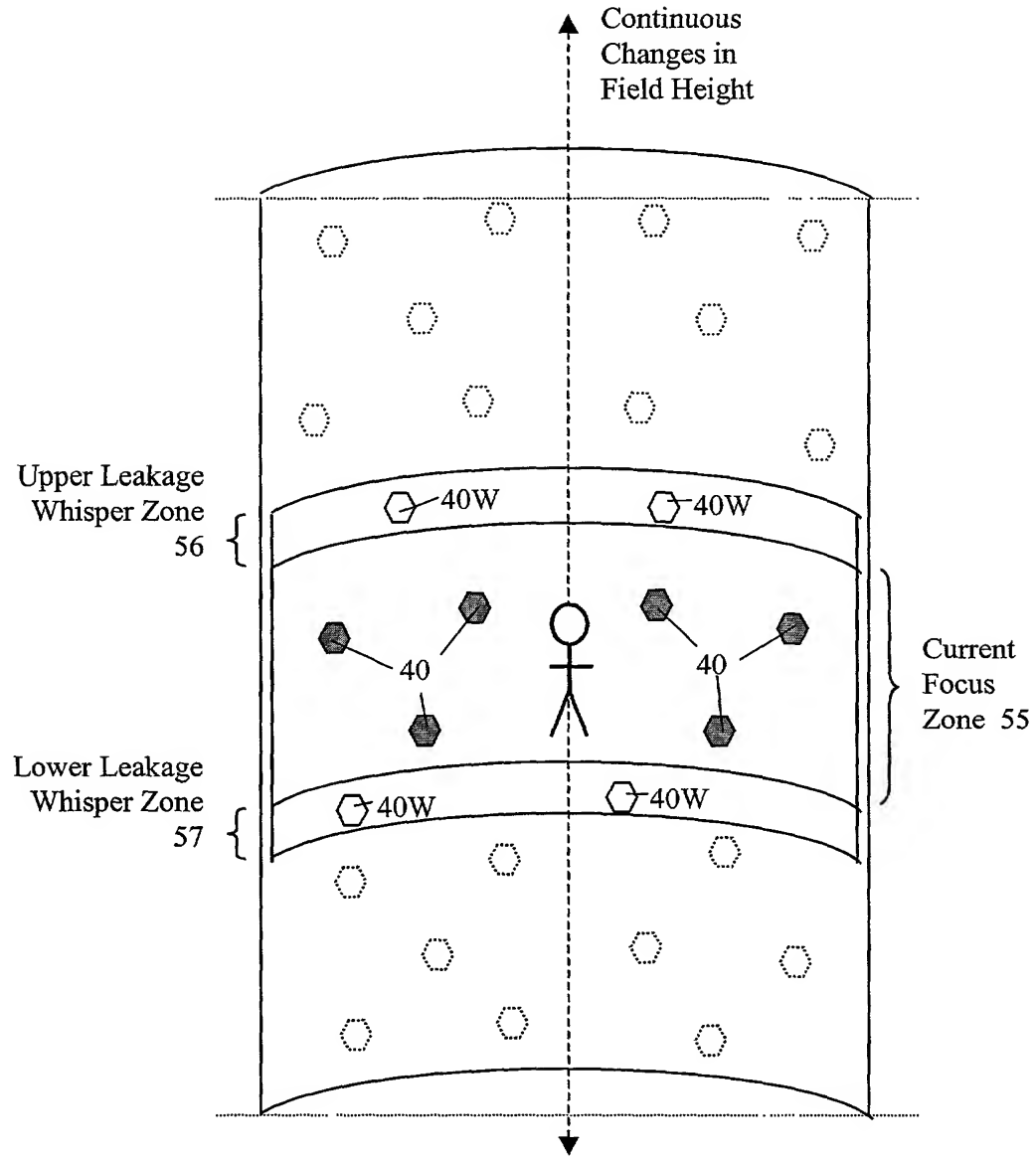

Continuous
Changes in
Field Height
Upper Leakage
Whisper Zone
56
40W
40W
40
40
Current
Focus
Zone 55
Lower Leakage
Whisper Zone
57
40W
40W

Figure 7

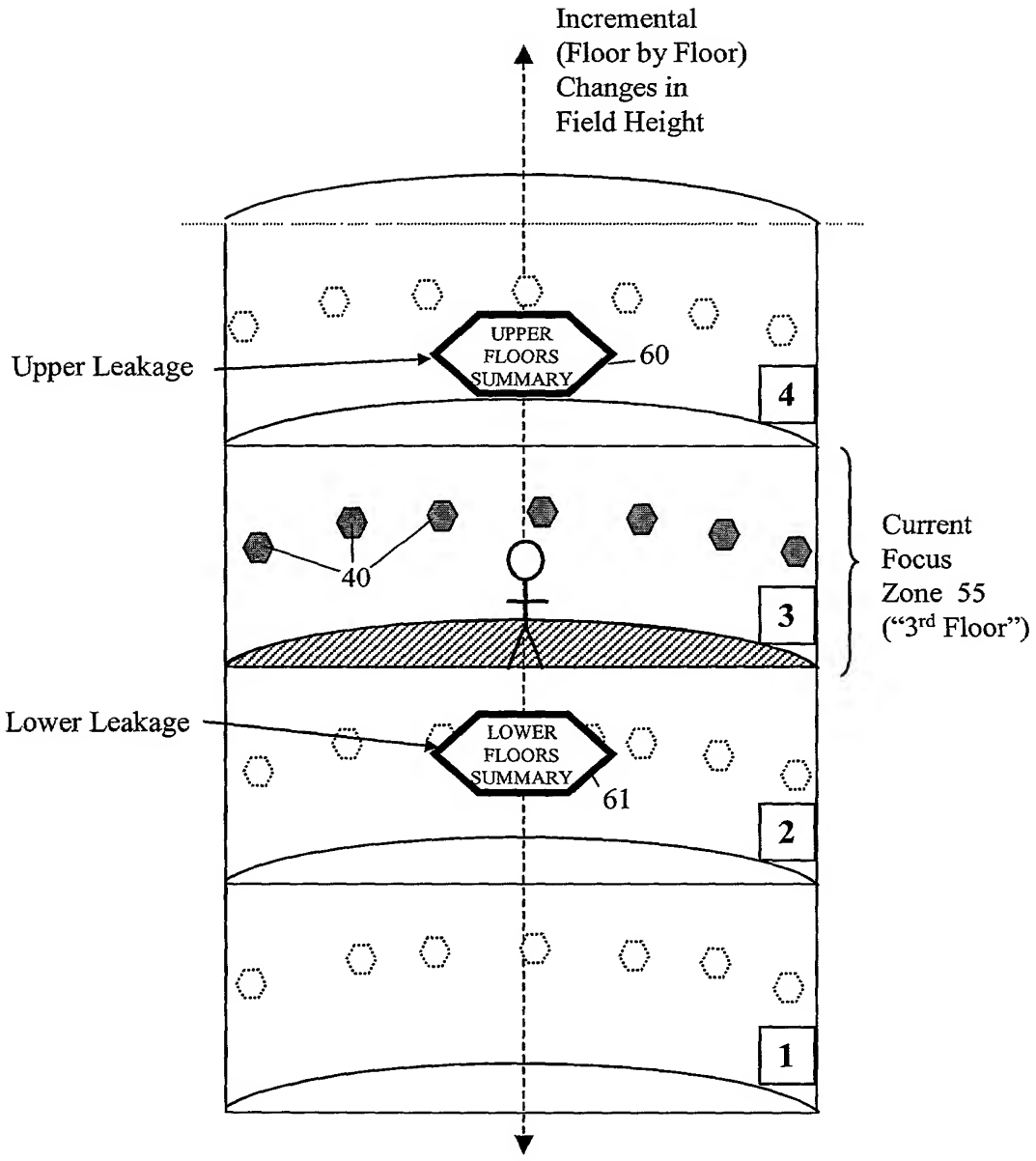

Incremental
(Floor by Floor)
Changes in
Field Height
Upper Leakage
UPPER
FLOORS
SUMMARY
60
4
40
3
Current
Focus
Zone 55
("3rd Floor")
Lower Leakage
LOWER
FLOORS
SUMMARY
61
2
1

Figure 8

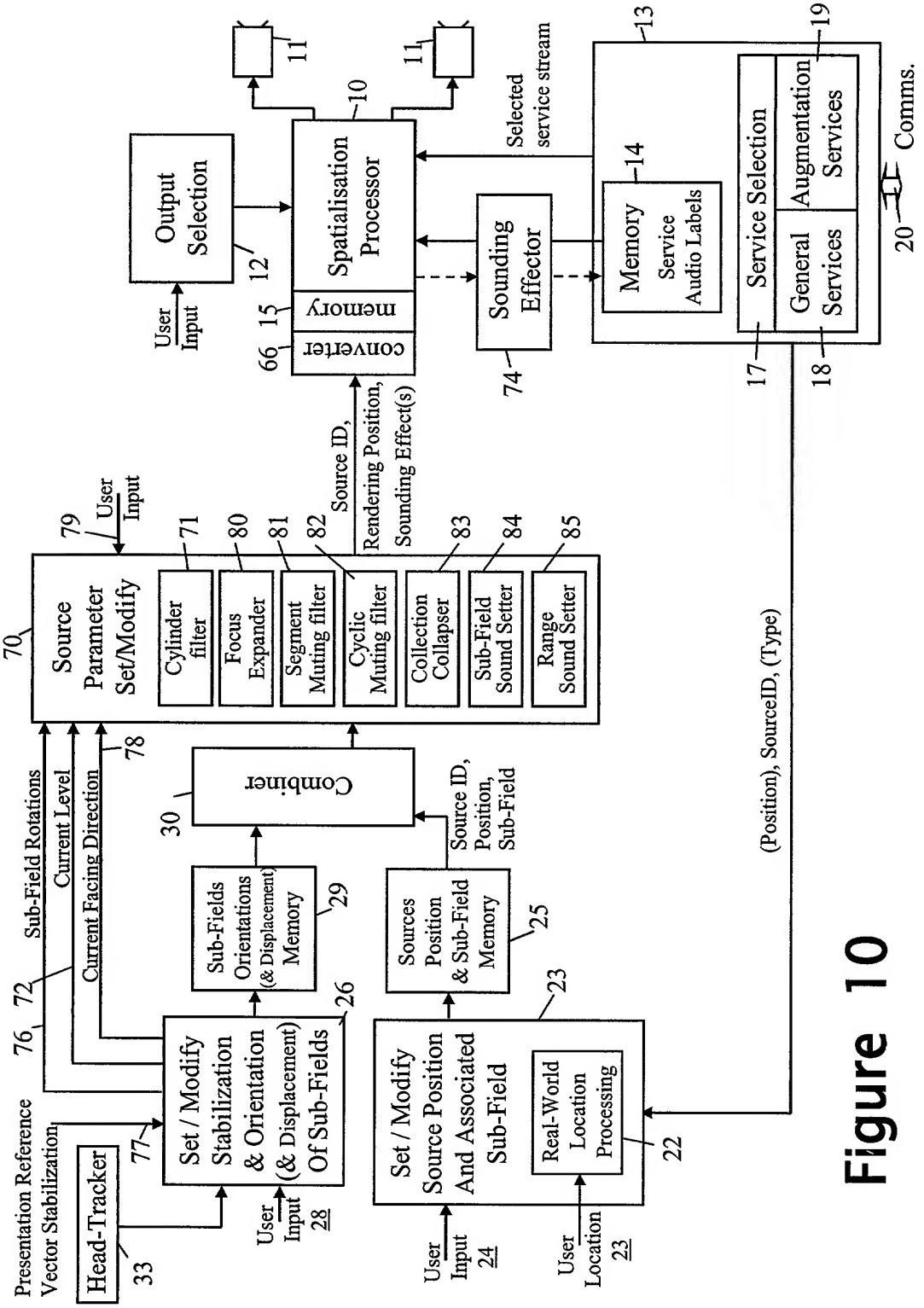

Output Selection
12
Spatialisation Processor
10
11
11
User Input
66
converter
15
memory
Selected service stream
Sounding Effector
74
Memory
Service Audio Labels
14
13
Service Selection
General Services
Augmentation Services
19
17
18
20
Comms.
(Position), SourceID, (Type)
Source ID, Rendering Position, Sounding Effect(s)
User Input
79
70
Source Parameter Set/Modify
71
Cylinder filter
80
Focus Expander
81
Segment Muting filter
82
Cyclic Muting filter
83
Collection Collapser
84
Sub-Field Sound Setter
85
Range Sound Setter
78
Combiner
30
Source ID, Position, Sub-Field
Sources Position & Sub-Field Memory
25
Sub-Fields Orientations (& Displacement) Memory
29
Sub-Field Rotations
Current Level
Current Facing Direction
72
76
Set / Modify Stabilization & Orientation (& Displacement) Of Sub-Fields
26
77
Presentation Reference Vector Stabilization
Head-Tracker
33
User Input
28
Set / Modify Source Position And Associated Sub-Field
23
Real-World Location Processing
22
User Input
24
User Location
23

Figure 10

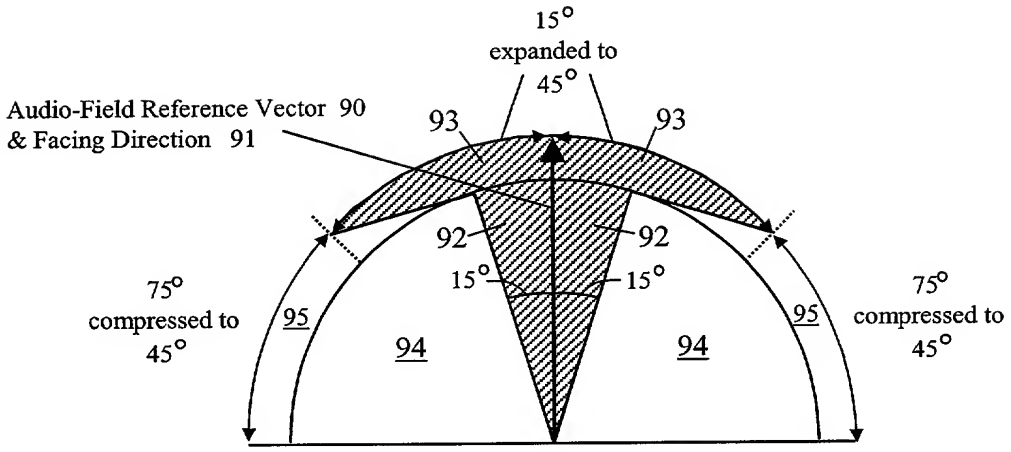


Figure 11

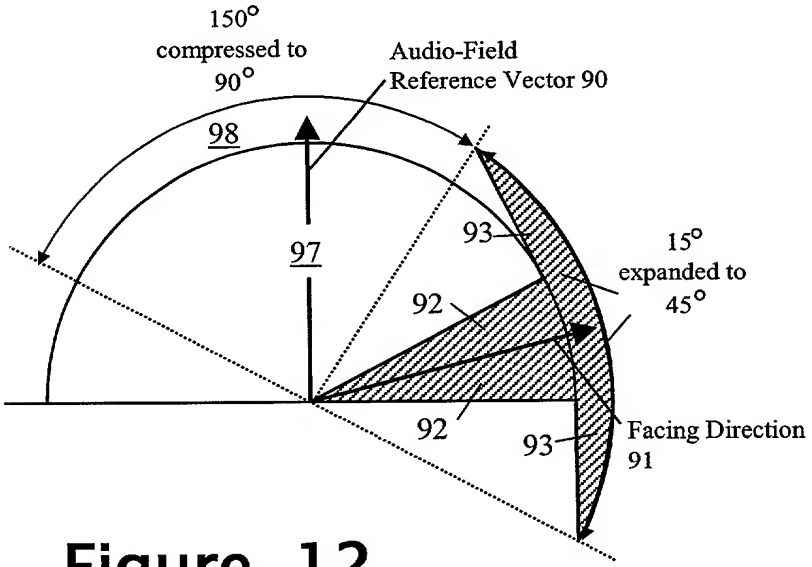


Figure 12

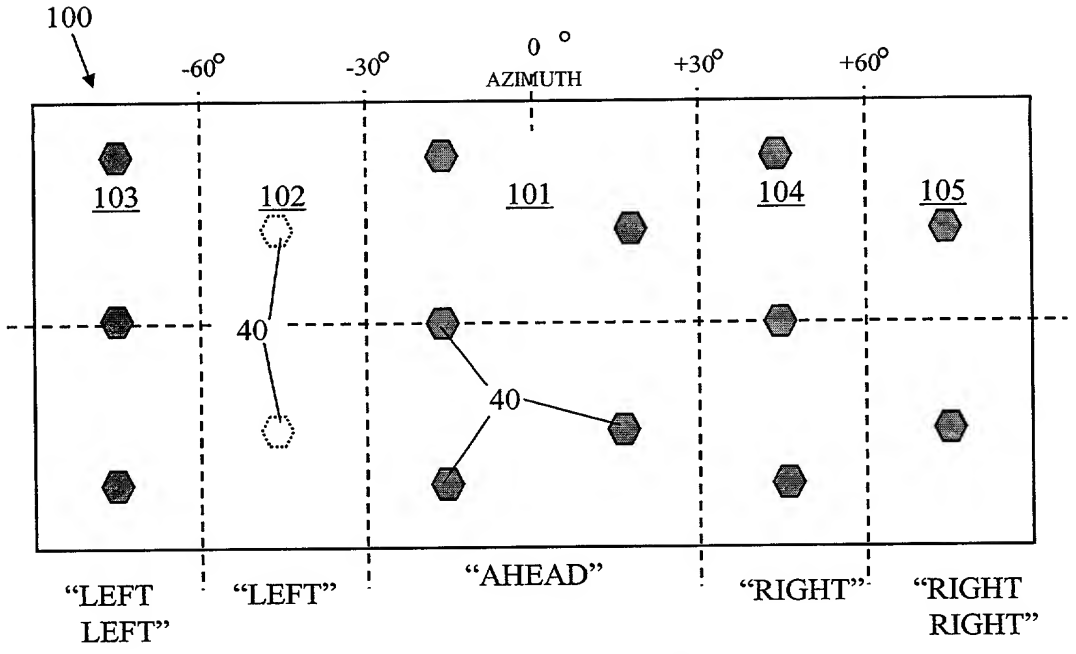


Figure 13

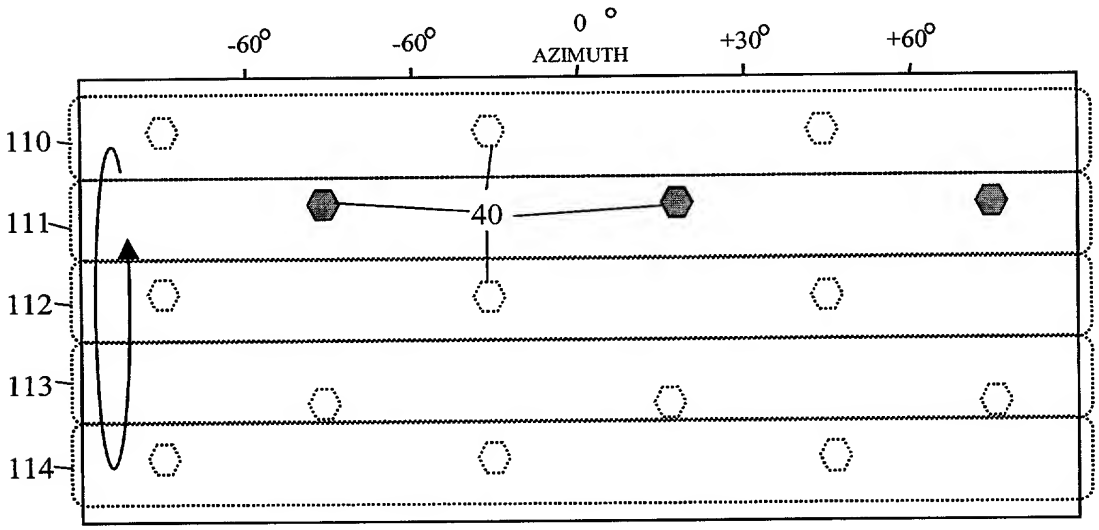


Figure 14

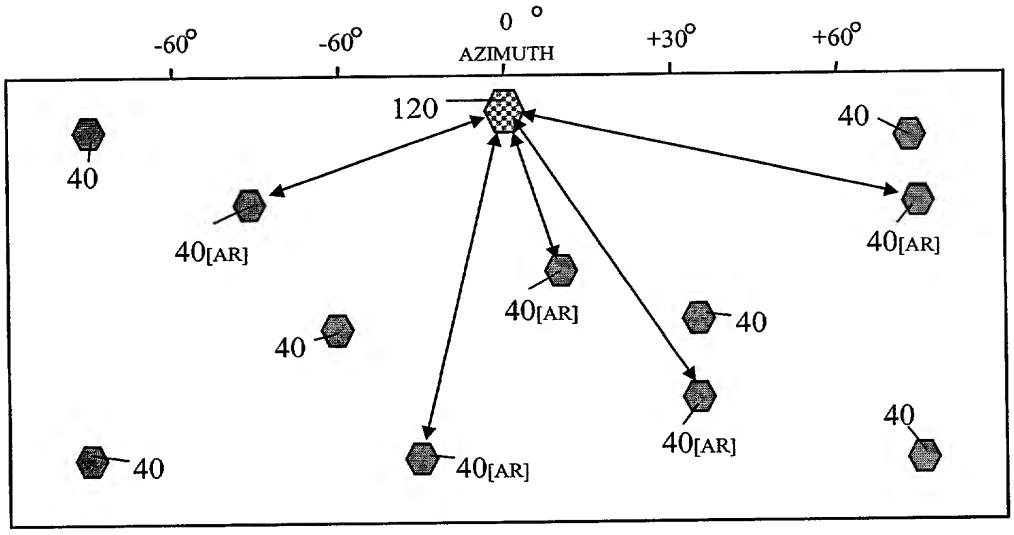


Figure 15

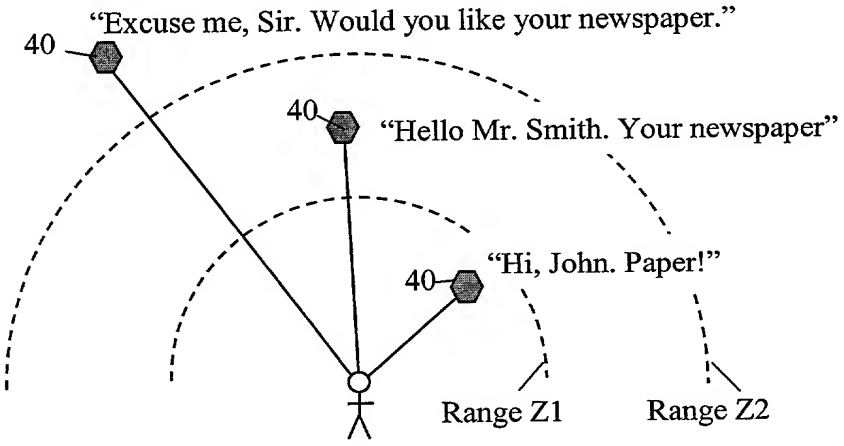


Figure 16

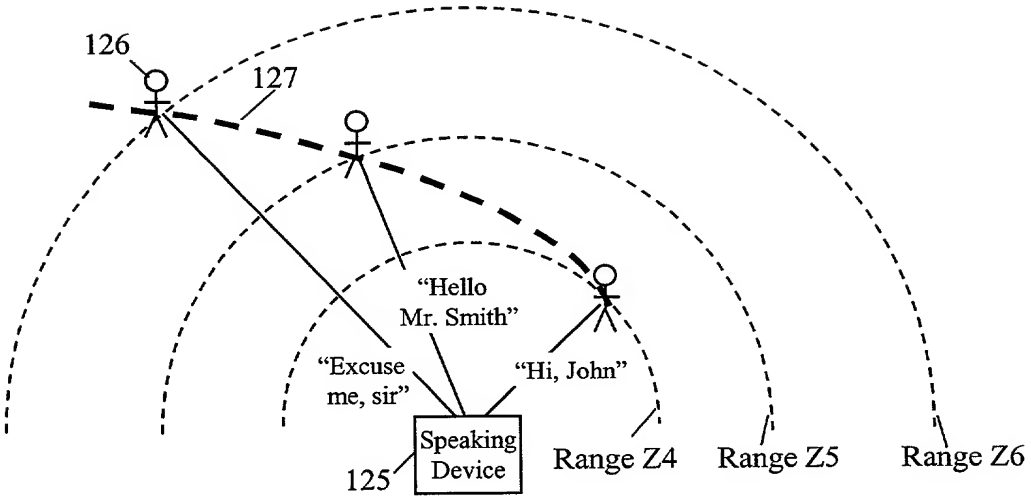


Figure 17

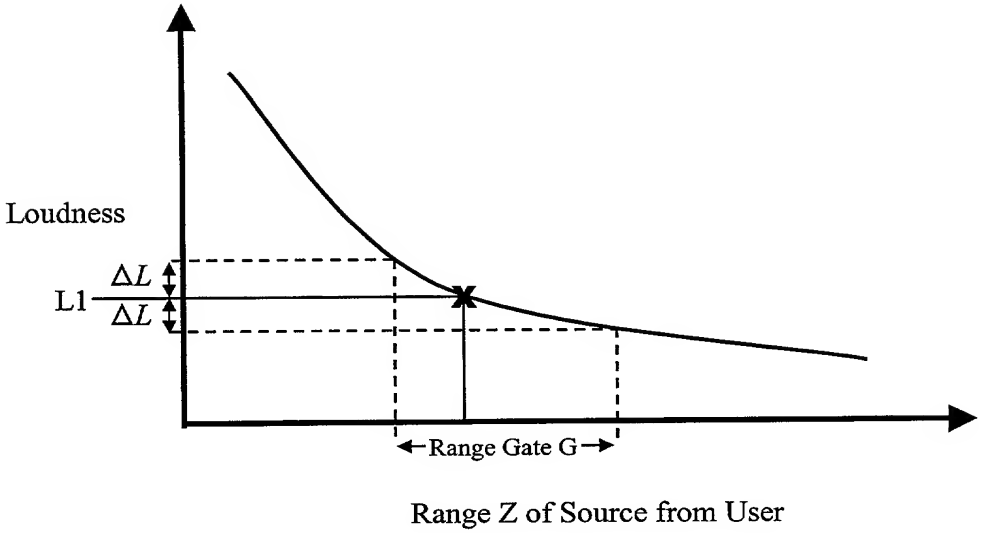


Figure 19

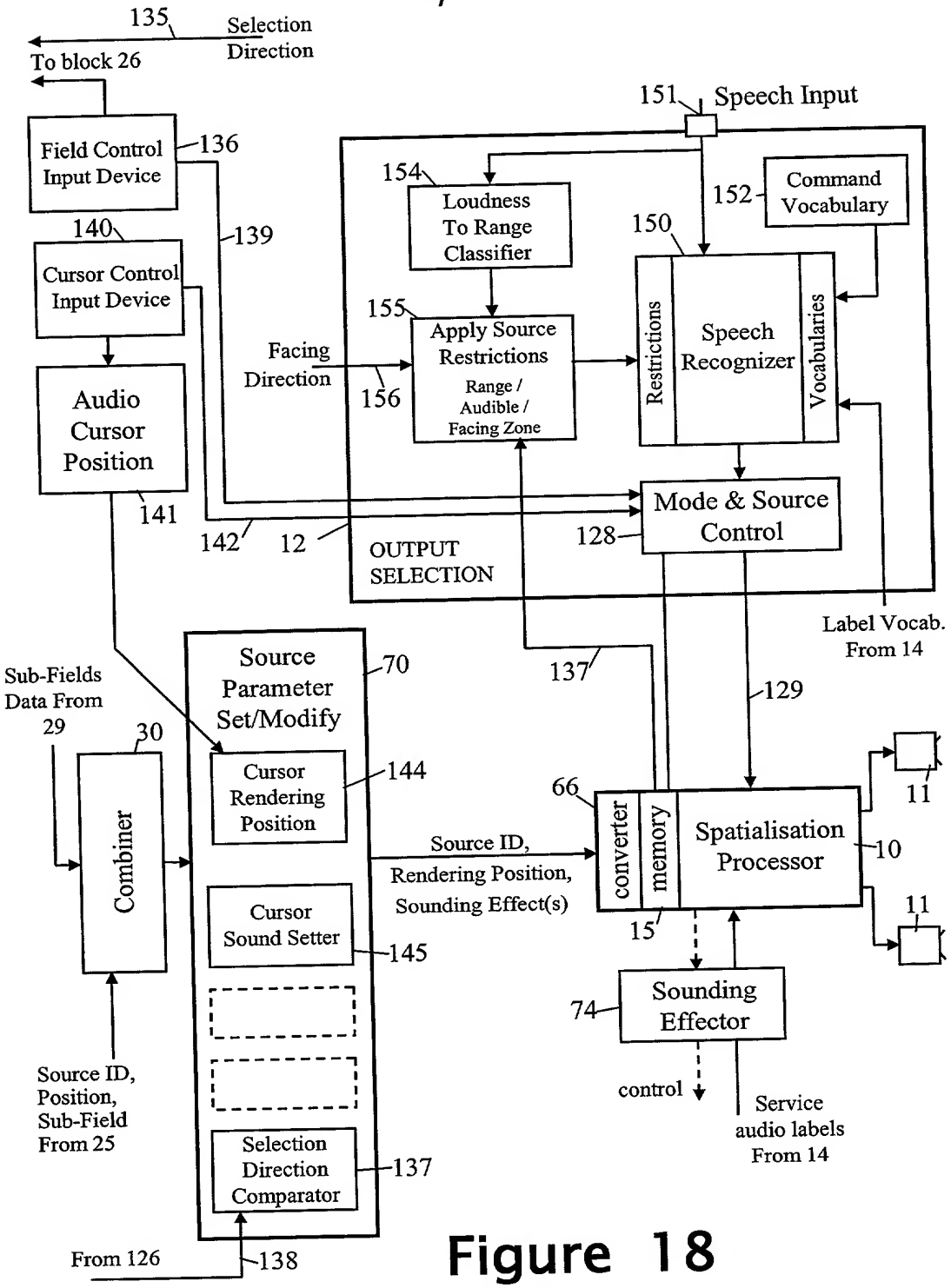

135
Selection Direction
To block 26
Field Control Input Device
136
139
140
Cursor Control Input Device
Audio Cursor Position
141
142
12
OUTPUT SELECTION
151
Speech Input
154
Loudness To Range Classifier
152
Command Vocabulary
150
155
Apply Source Restrictions
Range / Audible / Facing Zone
156
Facing Direction
Restrictions
Speech Recognizer
Vocabularies
Mode & Source Control
128
Label Vocab. From 14
137
129
Sub-Fields Data From 29
30
Combiner
Source Parameter Set/Modify
70
Cursor Rendering Position
144
Cursor Sound Setter
145
Selection Direction Comparator
137
From 126
138
Source ID, Position, Sub-Field From 25
Source ID, Rendering Position, Sounding Effect(s)
66
converter
memory
Spatialisation Processor
10
11
11
15
74
Sounding Effector
control
Service audio labels From 14

Figure 18

Figure 20

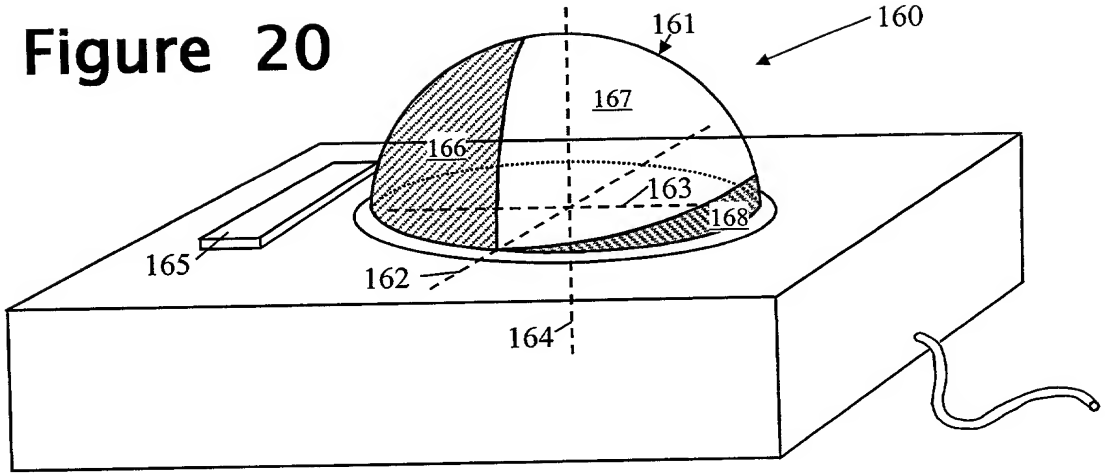


Figure 21

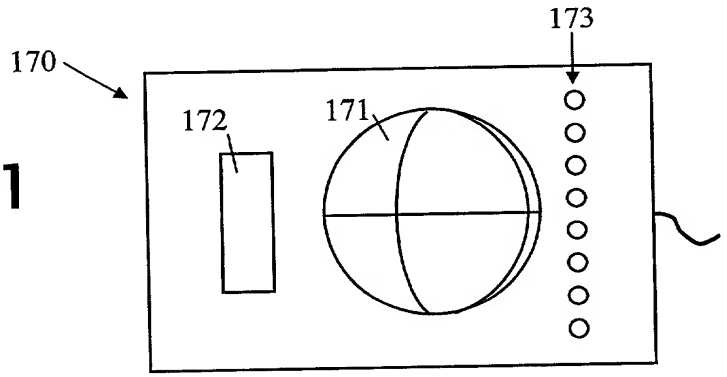
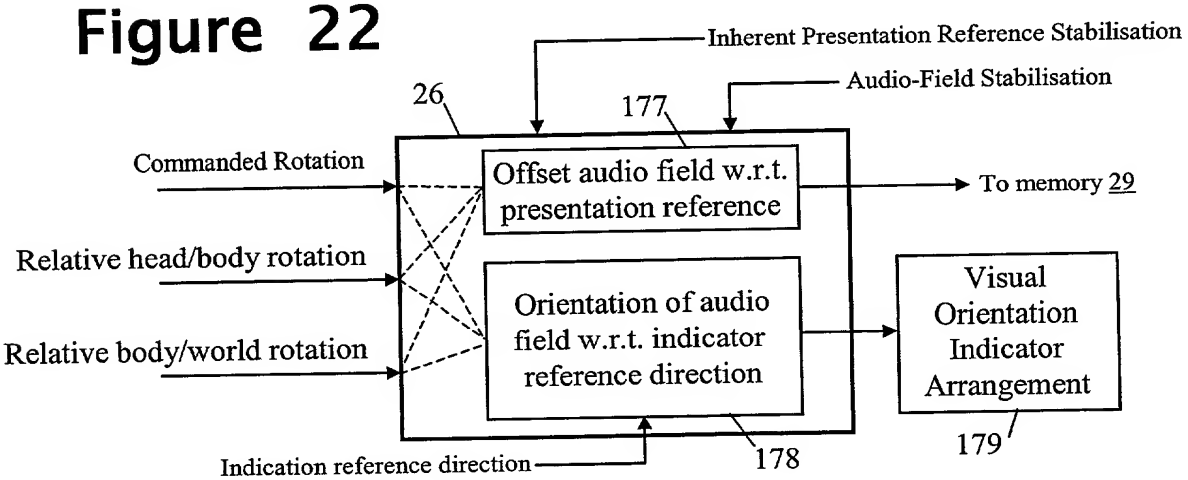


Figure 22



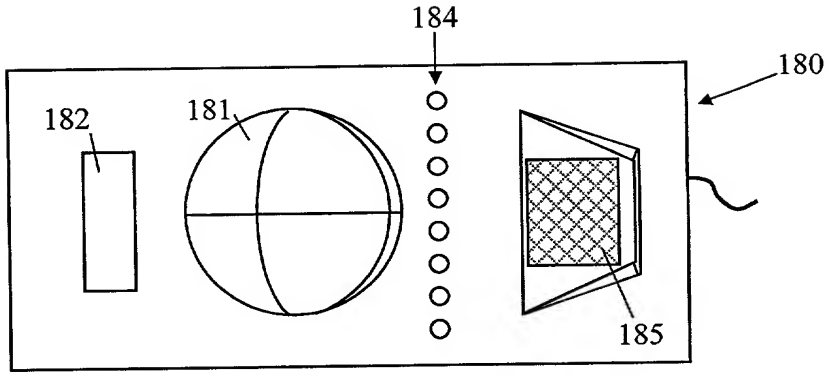


Figure 23

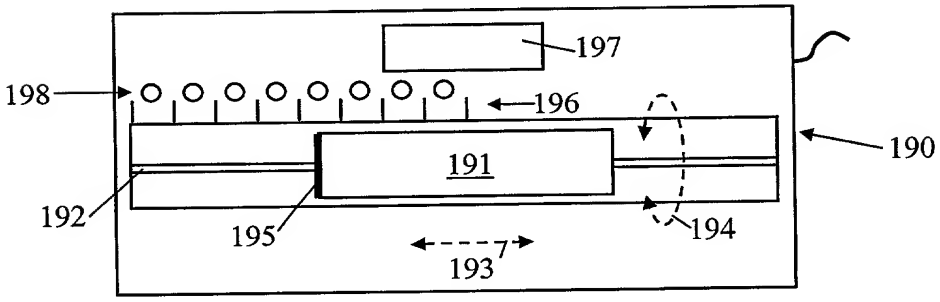


Figure 24